

Amendments to the Claims:

This listing of the claims will replace all prior versions, and listings, of the claims in the application.

1-43 (Previously Cancelled)

44. (Previously Presented) A heatsink assembly comprising:

a folded fin member having a first end adapted to be disposed proximate a heat source and a second end, said folded fin member including a thermally conductive sheet having alternating ridges and troughs defining spaced fins having opposite end edges and wherein the fins are provided having at least one aperture in a side edge thereof;

a slug coupled to said folded fin member wherein at least one of the end edges of the fins is closed.

45. (Previously Presented) A heatsink assembly comprising:

a folded fin member having a first end adapted to be disposed proximate a heat source and a second end, said folded fin member including a thermally conductive sheet having alternating ridges and troughs defining spaced fins having opposite end edges and wherein the fins are provided having at least one aperture in a side edge thereof;

a slug coupled to said folded fin member; and

a thermally conductive material disposed over an end of at least one of the troughs at the first end of said folded fin member such that the end of the trough is closed.

46. (Previously Presented) The heatsink assembly of claim 53 further comprising a gas supply source disposed proximate the second end of said folded fin member.

1 47. (Previously Presented) The heatsink assembly of claim 53 wherein material which  
2 was where said aperture is provided is completely removed from said side edge.

1 48. (Previously Presented) A heatsink assembly comprising:  
2 a folded fin member having a first end adapted to be disposed proximate a heat  
3 source and a second end, said folded fin member including a thermally conductive  
4 sheet having alternating ridges and troughs defining spaced fins having opposite end  
5 edges and wherein the fins are provided having at least one aperture in a side edge  
6 thereof; wherein material which was where said aperture is provided extends from said  
7 side edge; and  
8 a slug coupled to said folded fin member.

1 49. (Previously Presented) The heatsink assembly of claim 53 wherein said folded fin  
2 member is comprised of material selected from the group including aluminum, copper,  
3 brass, a zinc-aluminum die cast, and a zinc alloy material.

1 50. (Previously Presented) The heatsink assembly of claim 53 wherein said slug is  
2 comprised of material selected from the group including aluminum, copper, brass, a  
3 zinc-aluminum die cast, and a zinc alloy material.

1 51. (Previously Presented) The heatsink assembly of claim 53 further comprising a  
2 thermal interface material disposed on at least one surface of said slug.

1 52. (Previously Presented) A heatsink assembly comprising:  
2 a folded fin member having a first end adapted to be disposed proximate a heat  
3 source and a second end, said folded fin member including a thermally conductive  
4 sheet having alternating ridges and troughs defining spaced fins having opposite end

edges and wherein the fins are provided having at least one aperture in a side edge thereof;

a slug coupled to said folded fin member;

a thermal interface material disposed on at least one surface of said slug, wherein said thermal interface material is selected from the group consisting of a thermoelectric material and a thermoionic material.

53. (Previously Presented) A heatsink assembly comprising:

a folded fin member having a first end adapted to be disposed proximate a heat source and a second end, said folded fin member including a thermally conductive sheet having alternating ridges and troughs defining spaced fins having opposite end edges and wherein the fins are provided having at least one aperture in a side edge thereof; and

a slug coupled to said folded fin member, said slug having first and second opposing surfaces with a first one of the first and second opposing surfaces corresponding to an angled surface such that a plane defined by the first surface of said slug intersects a plane defined by the second surface of said slug.

54. (Previously Presented) The heatsink assembly of claim 53 wherein said folded fin member includes a portion disposed in a generally non-vertical position.

55. (Previously Presented) The heatsink assembly of claim 53 wherein said folded fin member includes at least one section disposed at a different height than another section.

56. (Cancelled)

57. (Currently Amended) ~~The heatsink assembly of claim 56.~~ A heatsink assembly comprising:

3 a folded fin member having a first end adapted to be disposed proximate a heat  
4 source and a second end, said folded fin member including a thermally conductive  
5 sheet having alternating ridges and troughs defining spaced fins having opposite end  
6 edges and wherein the fins are provided having at least one aperture in a side wall  
7 thereof; and  
8 a slug coupled to said folded fin member, said slug having first and second  
9 opposing surfaces with a first one of the first and second opposing surfaces  
10 corresponding to an angled surface such that a plane defined by the first surface of said  
11 slug intersects a plane defined by the second surface of said slug and wherein the first  
12 and second opposing surfaces of said slug as are provided having a generally oval  
13 shape.

1 58. (Currently Amended) The heatsink assembly of claim 5657 further comprising a  
2 base, said base having first and second opposing surfaces with a first one of the first  
3 and second opposing surfaces corresponding to an angled surface adapted to accept  
4 the angled surface of said slug.

1 59. (Previously Presented) The heatsink assembly of claim 58 wherein said base is  
2 provide having a circular shape.

1 60. (Previously Presented) The heatsink assembly of claim 59 wherein the angles of  
2 the first one of the slug surface and the first one of the base surface are selected such  
3 that a first portion of the folded fin member is at a different horizontal height than  
4 another portion of the folded fin member.

1 61. (Cancelled)

1 62. (Currently Amended) ~~The heatsink assembly of claim 54~~ A heatsink assembly  
2 adapted to contact a heat source, the heatsink assembly comprising:

3 a folded fin member having a first end adapted to be disposed proximate a heat  
4 source and a second end, said folded fin member including a thermally conductive  
5 sheet having alternating ridges and troughs defining spaced fins having opposite end  
6 edges and wherein the fins are provided having at least one aperture in at least one of a  
7 side wall or a side edge thereof; and  
8 a slug coupled to said folded fin member, said slug having a central axis and a  
9 top surface and a bottom surface, wherein a first axis which passes through both the top  
10 surface and the bottom surface of said slug intersects the top surface of said slug at an  
11 angle of 90 degrees and intersects the bottom surface of said slug at an angle other  
12 than 90 degrees wherein the first and second opposing surfaces of said slug are  
13 provided having a generally oval shape.

1 63. (Previously Presented) The heatsink assembly of claim 62 further comprising a  
2 base, said base having a top surface and a bottom surface wherein an axis which  
3 passes through both the top surface and the bottom surface of said base, intersects the  
4 top surface of said slug at an angle of 90 degrees and intersects the bottom surface of  
5 said base at an angle which substantially matches the angle at which the first axis  
6 passes through the bottom surface said slug.

1 64. (Previously Presented) The heatsink assembly of claim 63 wherein said base is  
2 provide having a circular shape.

1 65. (Previously Presented) The heatsink assembly of claim 64 wherein when the  
2 bottom surface of said slug is disposed on the top surface of said base, a plane defined  
3 by the top surface of said slug is substantially parallel to a plane defined by the bottom  
4 surface of said base.